

**CONTROL SEQUENCE: E4
VARIABLE AIR VOLUME • PRESSURE INDEPENDENT • COOLING
WITH 2 STAGES AUXILIARY HEAT**

Advanced micro-computer electronics and PI control algorithms provide precise temperature control. The thermostat provides a true multi-position modulating output signal (0 – 10 VDC) to a pressure independent VAV controller/actuator. A time proportioning on/off output signal based on a 15 minute duty cycle controls the auxiliary heat stages. This eliminates wasted energy caused by typical on-off cycling with conventional thermostats resulting in significant energy savings and superior comfort levels. The room occupant is able to reduce the set point to the lowest comfortable setting.

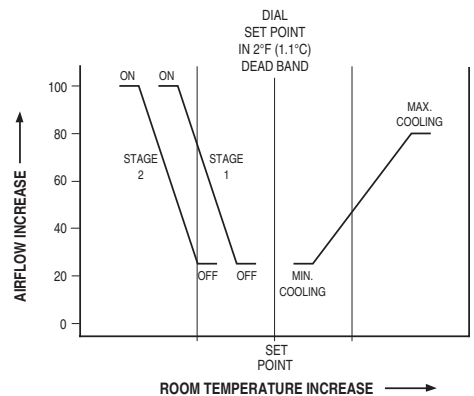
Sequence of Operation:

Central system supplies cool air. On a rise in room temperature above set point, the damper will slowly modulate open, increasing the flow of cool air to the room. (A pressure independent maximum airflow setting is calibrated on the controller/actuator). On a fall in room temperature below set point, the damper will modulate closed, reducing the flow of cool air into the room. (A pressure independent minimum setting is calibrated on the controller/actuator).

If room temperature continues to fall, the thermostat will close the contactors to energize progressively the first stage and then the second stage of auxiliary heat.

Options:

- 24 VAC Control transformer
- Toggle disconnect switch



SCHEDULE TYPE:					
PROJECT:					
ENGINEER:		DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:		3 - 23 - 21	3000	20 - 1 - 00R	3000CD-E4